



JST41SJ-600BW 40A TRIAC

Rev.A.2.1

DESCRIPTION:

The JST41SJ-600BW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. JST41SJ-600BW snubberless triac is especially recommended for use on inductive loads. Package TO-247J is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T _{stg}	-40-150	

Peak pulse voltage (T _j =25℃ ; non-repetitive, off-state; FIG.7)	V _{pp}	1.5	kV
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol

ORDERING INFORMATION

J	ST	41	SJ	-600	BW
JieJie Microelectronics Co., Ltd.	Triacs	$I_T(RMS):40A$	$SJ:TO-247J$	$600:V_{DRM}/V_{RRM} \quad 600V$	$BW:I_{GT1-3} \quad 50mA$

MARKING

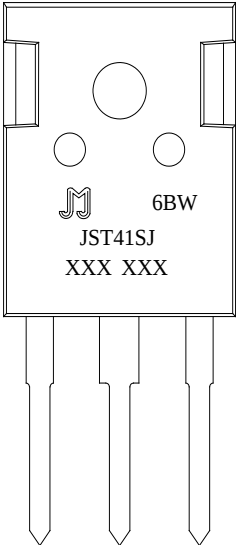
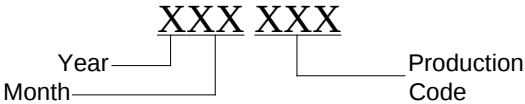
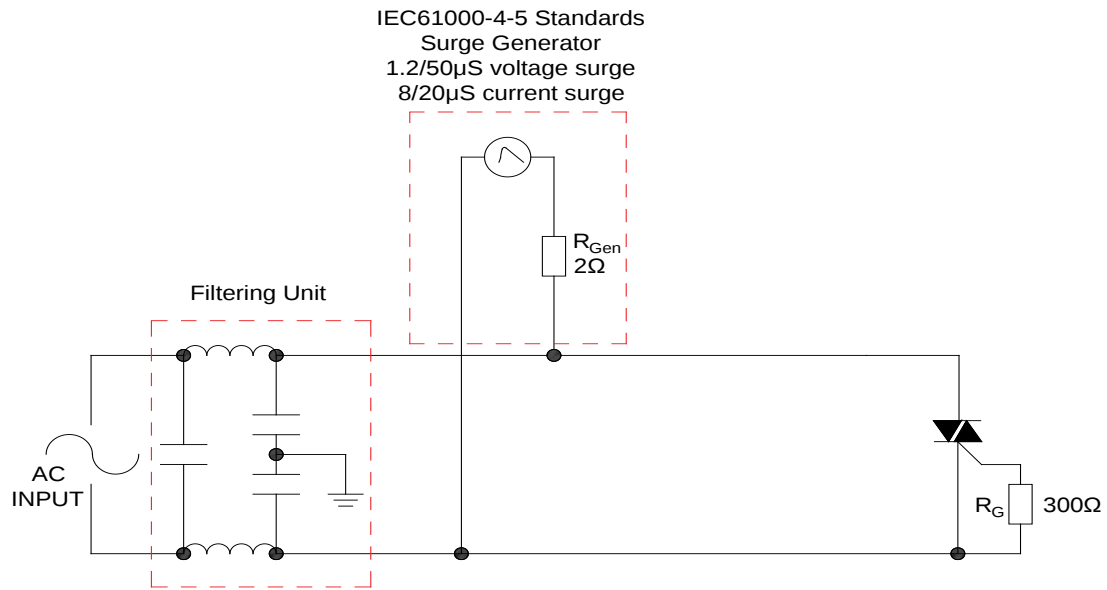
	
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FIG.1: Maximum power dissipation versus RMS on-state current

FIG.2: RMS on-state current versus case temperature

FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



LEAD FORMING AND SOLDERING

Refer to the application note “Assembly Instructions for Power Discretes in Through-hole Packages” released by JieJie Microelectronics

ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}(\text{V})$	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
JST41SJ-600BW	600	50	TO-247J	30	Tube

Document Revision History

Date	Revision	Changes
Apr.11, 2023	A.1	

PACKAGE MECHANICAL DATA



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A						
B1						
C						
D						
E						
F						
G						

H
J
K
L

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